Bruhat Bangalore Mahanagara Palike

Executive Engineer Yelahanka Zone Project Division

Name of Work: Development and Improvements of Road, Drain and Covering Slabs at Agrahara Layout in Ward No.05

					Estimate Cost Rs			198.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Remaking & Refixing stone slab of drain and pointing in C.M (1:3) (Page No 37., I.No 5.33 of KPWD S.R 2018-19)								
	Basic rate	105.00							
	6% RM	6.30							
	Sub Total	111.30							
	Agrahara layout								
	5th A main road	2	148.00	1.65		488.40			
	8th cross road	2	230.00	1.65		759.00			
	cross road 1	2	120.00	1.65		396.00			
	cross road 2	2	120.00	1.65		396.00			
	cross road 3	2	100.00	1.65		330.00			
	cross road 4	2	100.00	1.65		330.00			
	cross road A	2	25.00	1.65		82.50			
	cross road B	2	24.00	1.65		79.20			
	9th cross road	2	130.00	1.65		429.00			
	10th cross road	2	96.00	1.65		316.80			
	11th cross road	2	64.00	1.65		211.20			
	12th cross road	2	30.00	1.65		99.00			
	7th main road								
	9th cross road	2	60.00	1.65		198.00			
						4115.10			
	Deduct 35% damaged/missing					1440.29			
						2674.82			
	consider 50%					**1337.41**	**Sqm**	**111.30**	**148853.45**
2	Earthwork in excavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	180.00							
	Area weightage 6%	10.80							
	Sub total	190.80							
	Lead 5 km	**69.80**							
	Total	**260.60**							
	Desilting								
	Agrahara layout								
	5th A main road	2	148.00	0.60	0.70	124.32			
	8th cross road	2	230.00	0.60	0.70	193.20			
	cross road 3	2	120.00	0.60	0.70	100.80			

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	cross road-2	2	120.00	0.60	0.70	100.80			
	cross road-3	2	100.00	0.60	0.60	72.00			
	cross road-4	2	100.00	0.60	0.70	84.00			
	cross road-A	2	25.00	0.60	0.70	21.00			
	cross road -B	2	24.00	0.60	0.70	20.16			
	9th cross road	2	130.00	0.60	0.70	109.20			
	10th cross road	2	96.00	0.60	0.70	80.64			
	11th cross road	2	64.00	0.60	0.70	53.76			
	12th cross road	2	30.00	0.60	0.70	25.20			
	7th main road								
	9th cross road	2	60.00	0.60	0.70	50.40			
	cross road	2	140.00	0.80	0.80	179.20			
	Culvert	12	6.00	2.00	1.20	172.80			
						1387.48	**Cum**	**260.60**	**361577.29**
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. I.No.5.31.1, Page no 27								
	Basic rate	700.00							
	Area weightage 6%	42.00							
	Total	**742.00**							
	from item no.01					1440.29			
	cross road	2	140.00	1.65		462.00			
						1902.29	**Sqm**	**742.00**	**1411495.47**
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	6% AW	306.90							
	Sub Total	**5421.90**							
	Agrahara layout								
	Culvert	12	6.00	2.00	0.15	21.60			
						21.60	**Cum**	**5421.90**	**117113.04**
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13, cement mortar 1:6 KBS 5.1.13 (P.No-25,I No-5.6)								
	Basic rate	4596.00							
	6% AW	275.76							
	Sub Total	**4871.76**							
	Agrahara layout								
	Culvert	24	6.00	0.45	0.80	51.84			
						51.84	**Cum**	**4871.76**	**252552.0**

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6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Basic rate	5422.00							
	6% AW	325.32							
	Sub Total	5747.32							
	For Flagging Course P.C.C								
	Agrahara layout								
	Road side								
	5th A main road	2	148.00	0.25	0.15	11.10			
	8th cross road	2	230.00	0.25	0.15	17.25			
	cross road-1	2	120.00	0.25	0.15	9.00			
	cross road-2	2	120.00	0.25	0.15	9.00			
	cross road-3	2	100.00	0.25	0.15	7.50			
	cross road-4	2	100.00	0.25	0.15	7.50			
	cross road-A	2	25.00	0.25	0.15	1.88			
	cross road -B	2	24.00	0.25	0.15	1.80			
	9th cross road	2	130.00	0.25	0.15	9.75			
	10th cross road	2	96.00	0.25	0.15	7.20			
	11th cross road	2	64.00	0.25	0.15	4.80			
	12th cross road	2	30.00	0.25	0.15	2.25			
	7th main road								
	9th cross road	2	60.00	0.25	0.15	4.50			
	cross road	2	140.00	0.25	0.15	10.50			
	Compound side								
	5th A main road	2	148.00	0.20	0.15	8.88			
	8th cross road	2	230.00	0.20	0.15	13.80			
	cross road-1	2	120.00	0.20	0.15	7.20			
	cross road-2	2	120.00	0.20	0.15	7.20			
	cross road-3	2	100.00	0.20	0.15	6.00			
	cross road-4	2	100.00	0.20	0.15	6.00			
	cross road-A	2	25.00	0.20	0.15	1.50			
	cross road -B	2	24.00	0.20	0.15	1.44			
	9th cross road	2	130.00	0.20	0.15	7.80			
	10th cross road	2	96.00	0.20	0.15	5.76			
	11th cross road	2	64.00	0.20	0.15	3.84			
	12th cross road	2	30.00	0.20	0.15	1.80			
	7th main road								
	9th cross road	2	60.00	0.20	0.15	3.60			
	cross road	2	140.00	0.20	0.15	8.40			
	For Flagging Course Coping								
	Agrahara layout								
	Road side								
	5th A main road	2	148.00	0.20	0.10	5.92			
	8th cross road	2	230.00	0.20	0.10	9.20			

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	cross road-1	2	120.00	0.20	0.10	4.80			
	cross road-2	2	120.00	0.20	0.10	4.80			
	cross road-3	2	100.00	0.20	0.10	4.00			
	cross road-4	2	100.00	0.20	0.10	4.00			
	cross road-A	2	25.00	0.20	0.10	1.00			
	cross road -B	2	24.00	0.20	0.10	0.96			
	9th cross road	2	130.00	0.20	0.10	5.20			
	10th cross road	2	96.00	0.20	0.10	3.84			
	11th cross road	2	64.00	0.20	0.10	2.56			
	12th cross road	2	30.00	0.20	0.10	1.20			
	7th main road								
	9th cross road	2	60.00	0.20	0.10	2.40			
	cross road	2	140.00	0.20	0.10	5.60			
	Compound side								
	5th A main road	2	148.00	0.15	0.10	4.44			
	8th cross road	2	230.00	0.15	0.10	6.90			
	cross road-1	2	120.00	0.15	0.10	3.60			
	cross road-2	2	120.00	0.15	0.10	3.60			
	cross road-3	2	100.00	0.15	0.10	3.00			
	cross road-4	2	100.00	0.15	0.10	3.00			
	cross road-A	2	25.00	0.15	0.10	0.75			
	cross road -B	2	24.00	0.15	0.10	0.72			
	9th cross road	2	130.00	0.15	0.10	3.90			
	10th cross road	2	96.00	0.15	0.10	2.88			
	11th cross road	2	64.00	0.15	0.10	1.92			
	12th cross road	2	30.00	0.15	0.10	0.90			
	7th main road								
	9th cross road	2	60.00	0.15	0.10	1.80			
	cross road	2	140.00	0.15	0.10	4.20			
	For kerb stone								
	Agrahara layout								
	5th A main road	2	148.00	0.20	0.15	8.88			
	8th cross road	2	230.00	0.20	0.15	13.80			
	cross road-1	2	120.00	0.20	0.15	7.20			
	cross road-2	2	120.00	0.20	0.15	7.20			
	cross road-3	2	100.00	0.20	0.15	6.00			
	cross road-4	2	100.00	0.20	0.15	6.00			
	cross road-A	2	25.00	0.20	0.15	1.50			
	cross road -B	2	24.00	0.20	0.15	1.44			
	9th cross road	2	130.00	0.20	0.15	7.80			
	10th cross road	2	96.00	0.20	0.15	5.76			
	11th cross road	2	64.00	0.20	0.15	3.84			
	12th cross road	2	30.00	0.20	0.15	1.80			
	7th main road	2							
	9th cross road	2	60.00	0.20	0.15	3.60			
	cross road	2	140.00	0.20	0.15	8.40			

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	Culvert Coping	24	6.00	0.45	0.10	6.48			
	Culvert Vent	12	6.00	0.60	0.15	6.48			
						380.52	Cum	5747.32	2186941.47
7	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 I.No.5.26.2, Page no 27								
	Basic rate	962.00							
	Area weightage 6%	57.72							
	Total	**1019.72**							
	Flagging Course								
	Agrahara layout								
	5th A main road	2	148.00		0.40	118.40			
	8th cross road	2	230.00		0.40	184.00			
	cross road-1	2	120.00		0.40	96.00			
	cross road-2	2	120.00		0.40	96.00			
	cross road-3	2	100.00		0.40	80.00			
	cross road-4	2	100.00		0.40	80.00			
	cross road-A	2	25.00		0.40	20.00			
	cross road -B	2	24.00		0.40	19.20			
	9th cross road	2	130.00		0.40	104.00			
	10th cross road	2	96.00		0.40	76.80			
	11th cross road	2	64.00		0.40	51.20			
	12th cross road	2	30.00		0.40	24.00			
	7th main road								
	9th cross road	2	60.00		0.40	48.00			
	cross road	2	140.00		0.40	112.00			
						1109.60	**Sqm**	**1019.72**	**1131481.31**
8	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 I.No.5.26.2, Page no 27								
	Basic rate	924.00							
	Area weightage 6%	55.44							
	Total	**979.44**							
	Flagging Course								
	Agrahara layout								
	5th A main road	2	148.00		0.40	118.40			
	8th cross road	2	230.00		0.40	184.00			
	cross road-1	2	120.00		0.40	96.00			
	cross road-2	2	120.00		0.40	96.00			
	cross road-3	2	100.00		0.40	80.00			
	cross road-4	2	100.00		0.40	80.00			
	cross road-A	2	25.00		0.40	20.00			
	cross road -B	2	24.00		0.40	19.20			

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	9th cross road	2	130.00		0.40	104.00			
	10th cross road	2	96.00		0.40	76.80			
	11th cross road	2	64.00		0.40	51.20			
	12th cross road	2	30.00		0.40	24.00			
	7th main road								
	9th cross road	2	60.00		0.40	48.00			
	cross road	2	140.00		0.40	112.00			
						1109.60	**Sqm**	**979.44**	**1086786.62**
9	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	2337.00							
	For Drain								
	Flagging Course								
	Agrahara layout								
	5th A main road	2	148.00	0.90		266.40			
	8th cross road	2	230.00	0.90		414.00			
	cross road-1	2	120.00	0.90		216.00			
	cross road-2	2	120.00	0.90		216.00			
	cross road-3	2	100.00	0.90		180.00			
	cross road-4	2	100.00	0.90		180.00			
	cross road-A	2	25.00	0.90		45.00			
	cross road -B	2	24.00	0.90		43.20			
	missing slabs	400	0.60	0.90		216.00			
	9th cross road	2	130.00	0.90		234.00			
	10th cross road	2	96.00	0.90		172.80			
	11th cross road	2	64.00	0.90		115.20			
	12th cross road	2	30.00	0.90		54.00			
	missing slabs	350	0.60	0.90		189.00			
	7th main road								
	9th cross road	2	60.00	0.90		108.00			
	cross road	2	140.00	0.90		252.00			
	missing slabs	400	0.60	0.90		216.00			
						3117.60	**Sqm**	**2337.00**	**7285831.20**
10	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							
	Culvert Vent	12	6.00	1.50		108.00			
						108.00	**Sqm**	**5418.00**	**585144.00**

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11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. Item No 5.30, Page No.27								
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Total	**432.48**							
	Flagging Course								
	Agrahara layout								
	5th A main road	2	148.00			296.00			
	8th cross road	2	230.00			460.00			
	cross road-1	2	120.00			240.00			
	cross road-2	2	120.00			240.00			
	cross road-3	2	100.00			200.00			
	cross road-4	2	100.00			200.00			
	cross road-A	2	25.00			50.00			
	cross road -B	2	24.00			48.00			
	9th cross road	2	130.00			260.00			
	10th cross road	2	96.00			192.00			
	11th cross road	2	64.00			128.00			
	12th cross road	2	30.00			60.00			
	7th main road								
	9th cross road	2	60.00			120.00			
	cross road	2	140.00			280.00			
						2774.00			
						6164.00	**Nos**	**432.48**	**2665806.72**
12	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Basic rate	80.00							
	Area weightage 6%	4.80							
	Total	**84.80**							
	Flagging Course								
	Agrahara layout								
	5th A main road	2	148.00	0.40		118.40			
	8th cross road	2	230.00	0.40		184.00			
	cross road-1	2	120.00	0.40		96.00			
	cross road-2	2	120.00	0.40		96.00			
	cross road-3	2	100.00	0.40		80.00			
	cross road-4	2	100.00	0.40		80.00			
	cross road-A	2	25.00	0.40		20.00			
	cross road -B	2	24.00	0.40		19.20			
	9th cross road	2	130.00	0.40		104.00			
	10th cross road	2	96.00	0.40		76.80			
	11th cross road	2	64.00	0.40		51.20			
	12th cross road	2	30.00	0.40		24.00			
	7th main road								

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	10th cross road	2	60.00	0.40		48.00			
	cross road	2	140.00	0.40		112.00			
						1109.60	Sqm	84.80	94,094.08
								Total Construction Cost	17327676.70
								12% GST	2079321.20
								DPR & PMC Charges	393000.00
								Sub Total	19799997.90
								Miscellaneous & Rounding off	2.10
									19800000.00
				GRAND TOTAL					

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Brohat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer,

Asst. Exec. Engineer,
Yelahanka Project Division,
BBMP Bangalore

Executive Engineer, 4/11/19
Yelahanka Project Division,
BBMP Bangalore

Administrative Approval
Accorded For Rs.198.20 lakhs
E-3584
Head of A/C.....
CER NO :....57..... Dt:07/03/2020

Technical Sanction
Accorded For Rs 198.20 lakhs only
E-3584
Head of A/C.....
CER NO :....170..... Dt:06/11/2019

AE (YNK)

S.E. (Project)

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